

California Water Boards

6th Annual California Water Data Science Symposium

DRAFT Agenda

Monday, June 28, 2021

Paya: The Water Story of the Paiute
Film Screening & Panel Discussion

Please [register to attend](#) this film screening and panel discussion.

After registering, you will receive a confirmation email containing instructions on how to join the webinar.

Virtual Attendance for Non-registered Viewers: TBD

Time	Topic
Afternoon or Evening, TBD	Sign-on using information provided via your customized confirmation email
	Welcome & Logistics
	Film Screening <i>Paya: The Water Story of the Paiute</i>
	Panel Discussion

California Water Boards
6th Annual California Water Data Science Symposium
Tuesday, June 29, 2021

Please [register to attend](#) this event. After registering, you will receive a confirmation email containing instructions on how to join the webinar.

Virtual Attendance for Non-registered Viewers: TBD

Plenary Session

Time	Topic
8:45 - 9:00	Sign-on using information provided via your customized confirmation email
9:00 - 9:05	Symposium and Webinar Logistics <i>Greg Gearheart</i> <i>State Water Resources Control Board</i>
9:05 - 9:20	Welcome <i>E. Joaquin Esquivel</i> <i>State Water Resources Control Board</i>
9:20 - 10:00	<i>Keynote Conversation</i> <i>Ebony Harper</i> <i>California TRANScends</i>
10:00 - 10:05	Break

Session 1: From Data to Insight

Examples of data visualization, exploration, and application

Time	Topic
10:05 - 10:25	Bay-Delta data sandbox: a web-based analytics and visualization environment for accessing and experimenting with integrated Bay-Delta data <i>Emily Richardson, Jeffrey A. Hansen, Jeniffer Soto Perez, Tom Bergamaschi, Brendan F. Wakefield, Brian Bergamaschi</i> <i>United States Geological Survey</i>

Time	Topic
10:25 - 10:45	<p>DELVE: a cloud-based data management and visualization system for standardization, exploration, and collaboration</p> <p><i>Mike Leech¹, Laura Nickelhoff²</i></p> <p><i>(1) Environmental Science Associates, (2) Sitka Technology Group</i></p>
10:45 - 10:55 <i>Lightning Talk</i>	<p>Untangling the multi-variable microplastics toxicity issue with an interactive data exploration application</p> <p><i>Scott Coffin¹, Leah Thornton Hampton²</i></p> <p><i>(1) State Water Resources Control Board, (2) Southern California Coastal Water Research Project</i></p>
10:55 - 11:15	<p>Groundwater Quality Map</p> <p><i>Hung Bui</i></p> <p><i>State Water Resources Control Board</i></p>
11:15 - 11:35	<p>Advancing sustainable groundwater management with open-source technology: from vision to reality</p> <p><i>Christina Babbitt¹, John Burns²</i></p> <p><i>(1) Environmental Defense Fund, (2) Sitka Technology Group</i></p>
11:35 - 11:55	<p>gspdrywells.com: a decision support tool to estimate well failure in critical priority groundwater basins</p> <p><i>Rich Pauloo¹, Darcy Bostic², Amanda Monaco³, Kaylon Hammond³</i></p> <p><i>(1) Water Data Lab, (2) Pacific Institute, (3) Leadership Counsel for Justice and Accountability</i></p>
11:55 - 12:30	Lunch

Session 2: From Insight to Action

Example tools that support data-driven decision making

Time	Topic
12:30 - 12:50	<p>Unnatural water balance and biological beneficial uses: a data driven framework to support flow management decisions</p> <p><i>Amanda Aprahamian¹, Aaron Poresky²</i></p> <p><i>(1) Orange County Public Works, (2) Geosyntec Consultants</i></p>

Time	Topic
12:50 - 1:10	Water budget development: putting data to work <i>Paul Shipman, Abdul Khan</i> <i>California Department of Water Resources</i>
1:10 - 1:30	OC stormwater tools: an open-source platform for stormwater asset inventory and performance modeling <i>Austin Orr¹, Eric Rademacher²</i> <i>(1) Geosyntec Consultants, (2) Orange County Public Works</i>
1:30 - 1:40 <i>Lightning Talk</i>	Waste discharge requirement data management: past, present, future <i>TJ Middlemis-Clark¹, Kristina Olmos², Stephanie Torres³, Laurel Warddrip³</i> <i>(1) Lahontan Regional Water Quality Control Board, (2) Central Coast Regional Water Quality Control Board, (3) State Water Resources Control Board</i>
1:40 - 2:00	Open-source dashboards for operational control at wastewater facilities <i>Ryan Shepherd¹, Patrick McGrath²</i> <i>(1) Databrook LLC, (2) San Luis Obispo Water Resource and Reclamation Facility</i>
2:00 - 2:20	Beach and Bay Water Quality Program, County of San Diego <i>Farnaz Farhang</i> <i>County of San Diego</i>
2:20 - 2:35	Break

Session 3: From Prediction to Protection

Using machine learning to improve California's water resources

Time	Topic
2:35 - 2:55	Identifying meaningful water quality parameters for resource constrained local government's data collection using large open access state datasets: a Clear Lake case study, Lake County, CA. <i>Liam Healey, Angela De Palma-Dow</i> <i>Lake County Water Resources Department</i>

Time	Topic
2:55 - 3:15	<p>A day at the beach: enabling coastal water quality prediction with high-frequency sampling and data-driven models</p> <p><i>Ryan T. Searcy, Dr. Alexandria Boehm</i></p> <p><i>Stanford University</i></p>
3:15 - 3:35	<p>Leveraging big data to predict microplastics toxicity for aquatic organisms</p> <p><i>Scott Coffin¹, Leah Thornton Hampton², Bart Koelmans³, Merel Kooi³, Win Cowger⁴</i></p> <p><i>(1) State Water Resources Control Board, (2) Southern California Coastal Water Research Project, (3) Wageningen University, Netherlands, (4) University of California, Riverside</i></p>
3:35 - 3:55	<p>Detecting cigarette butts from an eye in the sky</p> <p><i>Lorenzo Flores</i></p> <p><i>San Francisco Estuary Institute</i></p>
3:55 - 4:00	<p>Daily wrap-up and adjourn</p> <p><i>Greg Gearheart</i></p> <p><i>State Water Resources Control Board</i></p>

California Water Boards
6th Annual California Water Data Science Symposium
Wednesday, June 30, 2021

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Virtual Attendance for Non-registered Viewers: TBD

Plenary Session

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8:45 - 9:00	Sign-on using information provided via your customized confirmation email
9:00 - 9:05	Welcome and Webinar Logistics <i>Greg Gearheart</i> <i>State Water Resources Control Board</i>

Session 1: California Chapter of the Society for Freshwater Science

Time	Topic
9:05 - 10:25	<i>TBD</i>
10:45 - 11:00	Break

Session 2: Using Data to Address Water and Racial Inequities

Time	Topic
11:00 - 12:40	Brief panelist presentations and panel discussion <i>Panelists: Anna Holder¹, Jaimie Huynh², Tara Moran³, Walker Wieland⁴</i> <i>Moderator: Greg Gearheart¹</i> <i>(1) State Water Resources Control Board, (2) CalRecycle, (3) California Water Data Consortium, (4) California Office of Environmental Health Hazard Assessment</i>
12:40 - 12:50	Symposium wrap-up and upcoming events <i>Greg Gearheart</i> <i>State Water Resources Control Board</i>

Bay-Delta Data Sandbox Workshop

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Time	Topic
1:30 - 4:00	Bay-Delta data access: a how-to workshop for accessing and analyzing environmental data in the U.S. Geological Survey Bay-Delta Data Sandbox <i>Brendan F. Wakefield, Jeffrey A. Hansen, Emily Richardson, Jeniffer Soto Perez, Tom Bergamaschi, Brian Bergamaschi</i> <i>United States Geological Survey</i>